SEQUENCE LISTING

<110> Hillyard, Jeanna
      Roberts, James
      Ye, Minwei

<120> Cotton Event PV-GHBK04 (757) and Compositions and Methods for
Detection Thereof

<130> 38-21 (52288)B

<150> US60/249,757
<151> 2000-11-17

<160> 21

<170> PatentIn version 3.0

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<213> artificial sequence

<220>
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<213> artificial sequence

<220>
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<222> (1)..(20)

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aaaccctttc tggaaaaata   20

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<220>
<221> misc_feature
<222> (1)..(20)

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tgttctgtgg aaaaggaagg   20

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<220>
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<222> (1)..(20)

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<222> (1)..(138)

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acactgatag tttaaactga aggcgggaaa cgacaatctg atcccagctt gcatgcctgc   60

aggtcaattc aatattgtgg caggacattg ctacatgata cctcttagaa ttgtttagac   120

ttcagatcga tcttgtca   138

<210> 6
<211> 767
<212> DNA
<213> Gossypium hirsutum

<220>
<221> Unsure
<222> (1)..(767)
<223> 5' cotton (Gossypium hirsutum) genome sequence

<400> 6
gtcccggggg cttatcctgt attcatttgc acccacataa acagccaaat taaccaaacc   60

catattcaac tgaaactccc aaagccattc ctactttagc ttttcaccca ctaactcaaa   120

agaaaacact cacctagctt ctttgctttt tcttttggat tgtttttagat ctacaaaaag   180

atgattcaag aactccttgg aggttcttct tgcttaaact ttggagggga gaggaagatc   240

tccatcaatg gaagcatttt ggaaggaacc cccacttctt ctccatcacc atcatcttct   300

tcttcttcgg cgacgacttc atcgaccact aattcatcga atccggagaa tcatcaccag   360

aatttgaggt gccccaggtg tgattcctcc aacacaaagt tctgctatta caacaactac   420

aacctcactc agcctcgtca cttttgcaag acttgccgtc ggtattggac caaaggagga   480

gctctcagaa acgttcctat tggtggtggg tgtaggaaaa acaaaagcac tactggtgtt   540

tcaacatctc tggggaaatc aacttcttcc aagatgaaaa cagtagtttc tgaaattgga   600

agatctgggt tcgatcatga gcttcagtct actccaattc tttggacttc agcggcccag   660

acttcccatc ttctatccaa tctaacctca atgagagcta ccctaaaccc taaccctaac   720

acattgtcta accctgttag tattaaggaa gaagtgagtt tgcttgg   767

<210> 7
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<212>   DNA
<213>   artificial sequence

<220>
<221>   misc_feature
<222>   (1)..(206)

<400>   7
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tcttttttgga atgctgctcc gtcgtcaggc tttccgacgt ttgggtggtt gaacagaagt     120

cattatcgca cggaatgcca agcactcccg aggggaaccc tgtggttggc atgcacatac     180

aaatggacga acggataaac cctttc
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<210>   8
<211>   307
<212>   DNA
<213>   Gossypium hirsutum

<220>
<221>   Unsure
<222>   (1)..(307)
<223>   3' cotton (Gossypium hirsutum) genome sequence

<400>   8
tggaaaaata atcaacacca cgctcaacaa caacagaata ataatgggtt ccttgtaggt      60

gaagttcaaa acacaggtat tcaagaactg tatcaaaggc tcaaatcatc atcaagttat     120

tactctgata cttcagcagt aattctaagc aatgtcgctt cttcttcatc aacatccatt     180

ttggagtcag ctccagttgc tggggggagaa ttgggttact ggaatccggc attttcatca    240

tcgtggtctg atcttccaac aactaatggt gcatatcctt aaaataaccc tttacctttc     300

gtttaat
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<210>   9
<211>   26
<212>   DNA
<213>   artificial sequence

<220>
<221>   misc_feature
<222>   (1)..(26)
<223>   5' cotton (Gossypium hirsutum) genome PCR primer

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gagagagata ggcactaaag taagca
                                                                         26


<210>   10
<211>   28
<212>   DNA
<213>   artificial sequence

<220>
<221>   misc_feature
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<222>  (1)..(28)
<223>  5' insert PCR primer


<400>  10
ttagacaaat tgtcacggtc taccagaa                                28


<210>  11
<211>  24
<212>  DNA
<213>  artificial sequence

<220>
<221>  misc_feature
<222>  (1)..(24)
<223>  3' insert PCR primer


<400>  11
ttcccaacga tcaaggcgag ttac                                    24


<210>  12
<211>  27
<212>  DNA
<213>  artificial sequence

<220>
<221>  misc_feature
<222>  (1)..(27)
<223>  3' cotton (Gossypium hirsutum) genome PCR primer


<400>  12
ttgatgcact tacgaaagaa gaaccga                                 27


<210>  13
<211>  905
<212>  DNA
<213>  artificial sequence

<220>
<221>  misc_feature
<222>  (1)..(905)
<223>  5' cotton (Gossypium hirsutum) genome + insert sequence


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catattcaac tgaaactccc aaagccattc ctactttagc ttttcaccca ctaactcaaa   120

agaaaacact cacctagctt ctttgctttt tcttttggat tgttttagat ctacaaaaag   180

atgattcaag aactccttgg aggttcttct tgcttaaact ttggagggga gaggaagatc   240

tccatcaatg gaagcatttt ggaaggaacc cccacttctt ctccatcacc atcatcttct   300

tcttcttcgg cgacgacttc atcgaccact aattcatcga atccggagaa tcatcaccag   360

aatttgaggt gccccaggtg tgattcctcc aacacaaagt tctgctatta caacaactac   420
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aacctcactc agcctcgtca cttttgcaag acttgccgtc ggtattggac caaaggagga      480

gctctcagaa acgttcctat tggtggtggg tgtaggaaaa acaaaagcac tactggtgtt      540

tcaacatctc tggggaaatc aacttcttcc aagatgaaaa cagtagtttc tgaaattgga      600

agatctgggt tcgatcatga gcttcagtct actccaattc tttggacttc agcggcccag      660

acttcccatc ttctatccaa tctaacctca atgagagcta ccctaaaccc taaccctaac      720

acattgtcta accctgttag tattaaggaa gaagtgagtt tgcttggaca ctgatagttt      780

aaactgaagg cgggaaacga caatctgatc ccagcttgca tgcctgcagg tcaattcaat      840

attgtggcag gacattgcta catgatacct cttagaattg tttagacttc agatcgatct      900

tgtca                                                                  905
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<210>   14
<211>   513
<212>   DNA
<213>   artificial sequence

<220>
<221>   misc_feature
<222>   (1)..(513)
<223>   3' cotton (Gossypium hirsutum) genome + insert sequence


<400>   14
tgagggatca agccacagca gcccactcga ccttctagcc gacccagacg agccaaggga       60

tctttttgga atgctgctcc gtcgtcaggc tttccgacgt ttgggtggtt gaacagaagt      120

cattatcgca cggaatgcca agcactcccg aggggaaccc tgtggttggc atgcacatac      180

aaatggacga acggataaac cctttctgga aaaataatca acaccacgct caacaacaac      240

agaataataa tgggttcctt gtaggtgaag ttcaaaacac aggtattcaa gaactgtatc      300

aaaggctcaa atcatcatca agttattact ctgatacttc agcagtaatt ctaagcaatg      360

tcgcttcttc ttcatcaaca tccattttgg agtcagctcc agttgctggg ggagaattgg      420

gttactggaa tccggcattt tcatcatcgt ggtctgatct tccaacaact aatggtgcat      480

atccttaaaa taacccttta cctttcgttt aat                                    513
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<210>   15
<211>   4973
<212>   DNA
<213>   artificial sequence

<220>
<221>   misc_feature
<222>   (1)..(4973)
<223>   sequence of 5' flank to full-length cry1Ac coding region


<400>   15
cggcccagac ttcccatctt ctatccaatc taacctcaat gagagctacc ctaaacccta       60
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accctaacac attgtctaac cctgttagta ttaaggaaga agtgagtttg cttggacact    120

gatagtttaa actgaaggcg ggaaacgaca atctgatccc agcttgcatg cctgcaggtc    180

aattcaatat tgtggcagga cattgctaca tgatacctct tagaattgtt tagacttcag    240

atcgatcttg tcagtctgaa agacccaaaa acaaatgcaa tttcttttct ggtagaccgt    300

gacaatttgt ctaagatgta tctgatttaa tgccttttgt atataataca ctcatctaat    360

ctagttaatt tagcttcaga gtaaattact tcagcatatt tatacgtgcc aagtgccaac    420

catatcaaat tagctaagca gacagttgaa gtacacaaaa caaaagcatc atatgctgat    480

ttatttattc atagatggag ctcaagtcat agttaaatag cccgatactt cctcgctca     540

ctatgagcta ttacagcata cattttagta ctacatactt attcagtaaa aagccctcaa    600

aattgaagac aaaggacggg atccccgggt accgagctcg aattcaggcc tctagatctc    660

attattcctc catcaagaga agctccacgc tgtccacgat gaaggttccc tcggtttcac    720

cgatctcgat ccacactttg tcggtctcag gaaagtactc aagctccttg gtaacatagc    780

caactggaag tggtgtgtag tccctgtaac ctctgttgaa ctcgcaaggg ttctcacgtc    840

tgccatctgt gtaggatttc tcctcgtaca cggaggcata gtcagcagga acggaaggag    900

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cgaagatggc agcgttcaca ccagggatca cggacaactc aggcaagtaa gcctcacgaa   1380

tgctgtgcac acgtttgtct gcggcgtgga tcatggcgat gttggtgtcg gcttgcaact   1440

gatcatattg ggagttcacg aacaaagcat ccacggactc tttggcctcc ttgtaaacga   1500

tgttagtttc ccattcgagt ttctcacgtt tgtccctcca cttcttctct gctctcttca   1560

cacgagcgag agcttcaccg accaatggtt tctcttcgag aaactcaagg ttgccaagtc   1620

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ggtcagtaca tcccacatcg atgtccaagg agaagtgatg agaatggtgg gcacacttct   1740

cgccatccct gcaggagcag tccaagtcag gattccactc aaggtgtgga gcgcatctgt   1800

taggctctcc acacttccca atgggagatt gggcagaaag tggccagagg gaaccagtac   1860

ctgggacatt cacggtctcg tgcttggcat tgtacctgat cgagtagatt tcaaggtctt   1920

ggctgtcttc gatgtagcct ctaagttgat acctggtgaa ggctttgagt ttggactcat   1980
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cacgttctgg ctgcctgttg atgtctttga agttggagtc ttgcaagaga ttcctctcgt    2160

cgctgagacg cttggcgtgt ttaactttct cggagagttc acgcttctcg tcgaggcaga    2220

actcatcgct aaggtaggtg accaagttgg acacttggtc aatgtgatag tcagtaacgt    2280

tagttttcaa gccaagctga ttggtggagg taaagagggc gttcacagcc ttctgggctc    2340

tctcaaggtt gtactcagcc tcgagtgttg cagtaactgg aatgaactcg aatctgtcga    2400

taatcactcc tgcagtccca ctaaagtttc taacacccac gatgttaccg agtgaagatg    2460

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tagctgtagc tggaactgta ttggagaaga tggatgaatt accccaatta cgttgaggt     2580

gaatagggt cacagaagca tacctcacac gaactctata tctggtagat gtggatggga    2640

agtgaattgg aacttcaata taccctctat tctgaatgtt atttccactg ctgttgagtc    2700

taacgaggtc tccaccagtg aatcctggtc ctgaaatgac agaaccgttg aagagaaagt    2760

ttcccttcac tgcagggatt tgagtaatac tatcggatgc gatgatgttg ttgaactcag    2820

cactacgatg tatccaagag aacataggag ctctgatgat gctcacggaa ctgttgctga    2880

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cattgttgtt ctgtggaaaa ggaaggtggc tcctacaaat gccatcattg cgataaagga    3000

aaggccatcg ttgaagatgc ctctgccgac agtggtccca aagatggacc cccacccacg    3060

aggagcatcg tggaaaaaga agacgttcca accacgtctt caaagcaagt ggattgatgt    3120

gatatctcca ctgacgtaag ggatgacgca caatcccact atccttcgca agacccttcc    3180

tctatataag gaagttcatt tcatttggag aggacacgct gacaagctga ctctagcaga    3240

tctccatgga caacaaccca aacatcaacg aatgcattcc atacaactgc ttgagtaacc    3300

cagaagttga agtacttggt ggagaacgca ttgaaaccgg ttacactccc atcgacatct    3360

ccttgtcctt gacacagttt ctgctcagcg agttcgtgcc aggtgctggg ttcgttctcg    3420

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ggttggaagg attgagcaat ctctaccaaa tctatgcaga gagcttcaga gagtgggaag    3600

ccgatcctac taacccagct ctccgcgagg aaatgcgtat tcaattcaac gacatgaaca    3660

gcgccttgac cacagctatc ccattgttcg cagtccagaa ctaccaagtt cctctcttgt    3720

ccgtgtacgt tcaagcagct aatcttcacc tcagcgtgct tcgagacgtt agcgtgtttg    3780

ggcaaaggtg gggattcgat gctgcaacca tcaatagccg ttacaacgac cttactaggc    3840

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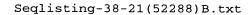
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cagtgtccca acttaccaga gaaatctata ctaacccagt tcttgagaac ttcgacggta      4080

gcttccgtgg ttctgcccaa ggtatcgaag gctccatcag gagcccacac ttgatggaca      4140

tcttgaacag cataactatc tacaccgatg ctcacagagg agagtattac tggtctggac      4200

accagatcat ggcctctcca gttggattca gcgggcccga gtttaccttt cctctctatg      4260

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<213>  artificial sequence

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<221>  misc_feature
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<223>  5' primer to 5' flanking sequence of SEQ ID NO: 15 from 8 to 26;


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gacttcccat cttctatcc                                                   19


<210>  17
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<222>  (1)..(19)
<223>  3'primer to partial e35S promoter of SEQ ID NO: 15 from 3154 to 3
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attgtgcgtc atcccttac                                              19


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gaatagggggt cacagaagca ta                                         22


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       to 3435


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<400>  20
ataaaggaaa ggccatcgt                                              19


<210>  21
<211>  25
<212>  DNA
<213>  artificial sequence

<220>
<221>  misc_feature
<222>  (1)..(25)
<223>  3'primer to full-length cry1Ac sequence of SEQ ID NO: 15 from 497
       3 to 4949
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<400> 21
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